Course of Study General Engineering Science (German program, 7 semester) (Study Cohort w20)

_		-				sation Compulsory Focus Compulsory	Thesis Compulsory
Sample course p	plan - Bachelor Genera	al Engineering Science (German	program, 7 semester) (AIWBS)	(7))	Core Qualification Elective Compulsory Special	isation Elective Compulsory Focus Elective Compuls	ory Interdisciplinary complement
pecialisation M	lechanical Engineering,	Focus Materials in Engineering	Sciences				
Chemistry I+II Chemistry I+II Chemistry I+II Chemistry I+II Chemistry I+II		Electrical Engineering II: Alternating Current Networks and Basic Devices Electrical Engineering II: Alternating VL 3 Current Networks and Basic Devices Electrical Engineering II: Alternating GÜ 2 Current Networks and Basic Devices	Technical Thermodynamics II	Signals and Systems Signals and Systems VL 3 Signals and Systems GÜ 2	Introduction to Control Systems Introduction to Control Systems VL 2 Introduction to Control Systems GÜ 2	Foundations of Management Introduction to Management VL 3 Management Tutorial GÜ 2	Advanced Internship AIW/ ES: SE 1 Preparation Advanced Intenship AIW/ ES: Internship- SE 1 accompanying Seminar
7 Electrical Engine Networks and Electrical Engine Networks and Electrical Engine Networks and Electrical Engine	igineering I: Direct Current  Id Electromagnetic Fields  ineering I: Direct Current VL 3  Electromagnetic Fields  ineering I: Direct Current GÜ 2  Electromagnetic Fields	Pundamentals of Mechanical Engineering Design Fundamentals of Mechanical Engineering VL 2 Design Fundamentals of Mechanical Engineering HÜ 2 Design	Mathematics III         VL         2           Analysis III         GÜ         1           Analysis III         HÜ         1           Differential Equations 1         VL         2           Differential Equations 1         GÜ         1           Differential Equations 1         HÜ         1	Fluid Dynamics Fluid Mechanics VL 3 Fluid Mechanics HÜ 2	Measurement Technology for Mechanical Engineers  Measurement Technology for Mechanical VL 2 Engineering Measurement Technology for Mechanical HÜ 1 Engineering Practical Course: Measurement and PR 2 Control Systems	Advanced Materials for Sustainability Advanced Materials Characterization VL 2 Advanced Materials for Sustainability VL 2 Advanced Materials for Sustainability HÜ 2	
13 Mathematics 14 Linear Algebra Analysis I Analysis I Analysis I	al VL 2 al GÜ 1	Technical Thermodynamics I	Mechanics III (Dynamics)           Mechanics III         VL         3           Mechanics III         GÜ         2           Mechanics III         HÜ         1	Mechanics IV (Oscillations, Analytical Mechanics, Multibody Systems, Numerical Mechanics IV	Numerical Mathematics I  Numerical Mathematics I  Numerical Mathematics I  GÜ  2	Enhanced Fundamentals of Materials Science Materials for Energy Storage and VL 2 Conversion Enhanced Fundamentals: Ceramics and VL 2 Polymers Enhanced Fundamentals: Ceramics and HÜ 1 Polymers	
20  Mechanics I ( Mechanics I	VL 2	Mechanics II: Mechanics of Materials         VL         2           Mechanics II         GÜ         2           Mechanics II         HÜ         2           Mechanics II         HÜ         2	Advanced Mechanical Engineering Design (part 1) Advanced Mechanical Engineering VL 2	Advanced Mechanical Engineering Design (part 2) Advanced Mechanical Engineering VL 2 Design II Advanced Mechanical Engineering HÜ 2 Design II	Computer Engineering VL 3 Computer Engineering GÜ 1	Materials Engineering: Materials Selection, Processing and Modelling (part 2) Materials Selection and Processing VL 3 Materials and Process Modeling VL 3	Bachelor Thesis
Mechanics I  Mechanics I  23  24	Mechanics I GÜ 2 Mechanics I HÜ 1		Design I  Mechanical Engineering: Design (part 1)	Mechanical Engineering: Design (part 2) Team Project Design Methodology PBL 2 Mechanical Design Project II PBL 3			
25 26 27 <b>Programming</b>	ıg in C	Mathematics II	Embodiment Design and 3D-CAD VL 2  Mechanical Design Project I PBL 3  Fundamentals of Materials Science (part 1)	Fundamentals of Materials Science (part 2) Fundamentals of Materials Science II VL 2	Material Science Laboratory  Companion Lecture for Materials Science VL 2  Laboratory  Material Science Laboratory PR 4		
30 Physics for Eng	in C PR 1  Engineers (AIW)  Igineers VL 2	Analysis II         VL         2           Analysis II         HÜ         1           Analysis II         GÜ         1	Fundamentals of Materials Science I VL 2 Physical and Chemical Basics of Materials VL 2 Science				
31 32 33	ngineers GŪ 1				Materials Engineering: Materials Selection, Processing and Modelling Materials Selection and Processing VL 3 Materials and Process Modelling VI 3		
34 35 36					Materials and Process Modeling VL 3		
	nical Courses for Bachelors (fr	om catalogue) - 6LP					

The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.